(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 31 December 2003 (31.12.2003)

PCT

(10) International Publication Number WO 2004/001578 A1

(51) International Patent Classification⁷: G06 H04M 1/23, 1/02, 1/725

G06F 3/023,

(21) International Application Number:

PCT/IB2002/002318

(22) International Filing Date: 21 June 2002 (21.06.2002)

(25) Filing Language:

English

(26) Publication Language:

English

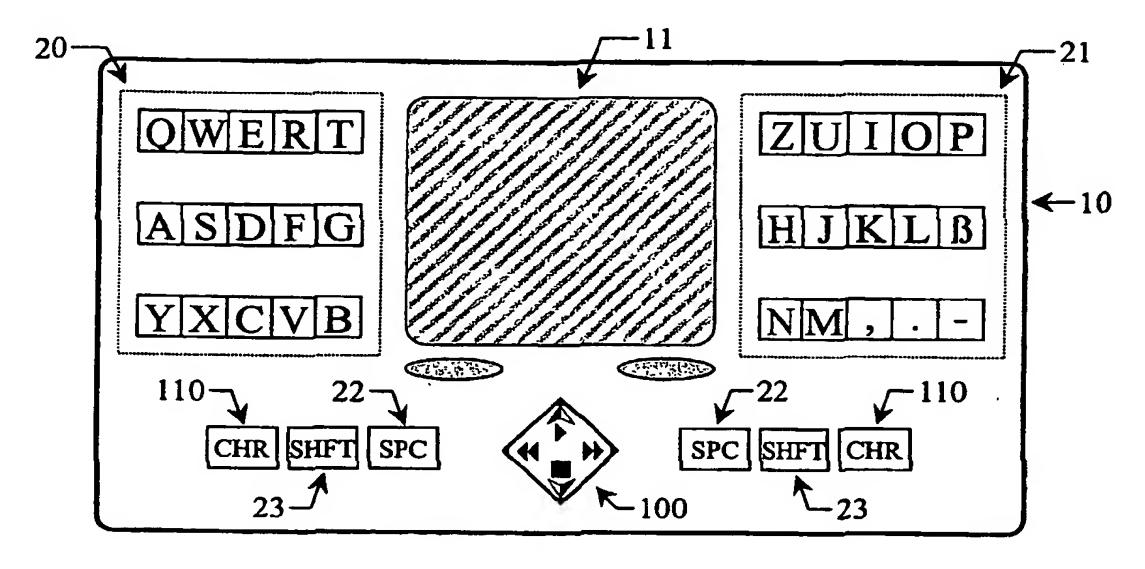
- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KESPOHL, Klaus [DE/DE]; Dorstener Str. 224, 44809 Bochum (DE). LEHN, Karsten [DE/DE]; Auf dem Spiek 45, 59174 Kamen (DE). KÖLL, André [DE/DE]; c/o Nokia Corporation, Rensingstr. 13, 44807 Bochum (DE). VÖLLINGER, Stefanie [DE/DE]; Lortzingstr. 6, 45128

Essen (DE). BRISSE, Konrad [DE/DE]; Erzbergerstrasse 60, 45527 Hattingen (DE). BUTH, Peter [DE/DE]; Kupferplatte 7, 44795 Bochum (DE).

- (74) Agent: KURIG, Thomas; Becker, Kurig, Straus, Bavariastr. 7, 80336 München (DE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: MOBILE COMMUNICATION DEVICE HAVING MUSIC PLAYER NAVIGATION FUNCTION AND METHOD OF OPERATION THEREOF



(57) Abstract: The invention relates to a controlling arrangement for a music player application in a mobile communication device. To improve the control of the music player, a multifunctional soft button (100) with four switching positions (up, down, left and right) and a mode switching arrangement (110) are provided on the keyboard layout (10). The application can be switched in two different modes with the switching arrangement and can be controlled with the multifunctional soft button, the latter having different functionality depending on the mode of the application. Combined functionality of the multifunctional soft button from the first and second mode is also possible. Additional symbols related to the music player functionality are printed in different colors on the multifunctional soft switch.



 $\mathfrak{D}=\mathfrak{g}^{-1}$

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.